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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10 012,209	11.05,2001	Chik Patrick Yue	073169:0276083	5319	
759	01 30 2003				
PILLSBURY WINTHROP, LLP		EXAMINER			
1600 Tysons Boulvard McLean, VA 22102			POKER, JENNIFER A		
			ART UNIT	PAPER NUMBER	
			2832	_	
			DATE MAILED: 01 30'2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No		Applicant(s)	
		10/012,209		YUE, CHIK PATRICK	
Office Action Summary		Examiner		Art Unit	
			(er	2832	
	The MAILING DATE of this communication ap	pears on the cov	er sheet with the	correspondence	address
A SHO THE M - Extens after S	RTENED STATUTORY PERIOD FOR REPL AILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1. IX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a re-	136(a). In no event, ho ply within the statutory r I will apply and will expi	minimum of thirty (30) do re SIX (6) MONTHS fro	ays will be considered to m the mailing date of the	imely. nis communication.
- Failure - Any re earned	period for reply is specified above, the maximum stated be to reply within the set or extended period for reply will, by slatuply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ing date of this commun	ication, even if timely til	ed, may reduce any	
tatus	Responsive to communication(s) filed on 14	1 January 2003 .			
1)[]	2h\\\\\\ 1	This action is not	n-final.		
2a)	This action is the ter		formal matters	prosecution as	to the ments is
3)[_]	Since this application is in condition for allor closed in accordance with the practice undo on of Claims	er <i>Ex parte</i> Quay	de, 1935 C.D. 11	, 453 O.G. 213.	
ν.	Claim(s) 1-18 is/are pending in the application	ion.			
4)[_	4a) Of the above claim(s) <u>1-7 and 15-18</u> is/a	re withdrawn from	m consideration.		
	Claim(s) is/are allowed.				
	Claim(s) <u>8-14</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)	Claim(s) are subject to restriction an	d/or election req	uirement.		
	tion Papers	niner.			
9)⊡	The specification is objected to by the Exame The drawing(s) filed on <u>22 April 2002</u> is/are:	all laccepted of	b) objected to	by the Examiner	
10)[:	The drawing(s) filed on 22 April 2002 Island Applicant may not request that any objection t				
	The proposed drawing correction filed on	is: a)∏ app	oroved b)□ disa	pproved by the E	xaminer.
11)	If approved, corrected drawings are required i	in reply to this Offic	ce action.		
40)	The oath or declaration is objected to by the	e Examiner.			
1	o cc 440 and 120				
Priority	runder 35 U.S.C. §§ 119 and 120 Acknowledgment is made of a claim for fo	reign priority und	ler 35 U.S.C. § 1	19(a)-(d) or (f).	
13)∟	a) ☐ All b) ☐ Some * c) ☐ None of:				
	- the priority docur	ments have beer	received.		
	su saitu docu	ments have beef) teceived iii whi	olication No	·
	3. Copies of the certified copies of the application from the Internation	e priority docume al Bureau (PCT	Rule 17.2(a)).	eceived.	
	and of a claim for do	mestic priority ui	idel 33 0.0.0.3		visionai application
14)[□ Acknowledgment is made of a claim release □ The translation of the foreign languag □ Acknowledgment is made of a claim for do	ge provisional ap omestic priority u	plication has been nder 35 U.S.C. §	en received. §§ 120 and/or 12	1.
Attachi	nent(s)		D. Lukamilani S	ummary (PTO-413)	Paper No(s)
	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9 nformation Disclosure Statement(s) (PTO-1449) Paper	48) No(s) <u>9</u> .	5) Notice of In 6) Other:	offormal Patent Applic	eation (F10-132)
1		effice Action Summi	arv		Part of Paper No. 9

DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of Group II, claims 8-14, in Paper No. 8 is acknowledged.
- 2. Claims 1-7 and 15-18 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 8.

Specification

3. The abstract of the disclosure is objected to because it does not correspond to the "Claimed" invention. Due to the applicant's election without traverse of Group II, Claims 8-14, the invention relates to a product, not a method.

Correction is required. See MPEP § 608.01(b).

4. The abstract of the disclosure is further objected to because it contains a typographical error. In line 4, the abstract reads, "The method thin includes aying. . ." Correction is required.

Drawings

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference signs mentioned in the description: "100", "200", "308", "314", "400", "408", and "410". A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abevance.

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6. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference signs not mentioned in the description: "M₃", "M₁₂", "M₂₃", and "R". A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) The invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) A patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 8. Claims 8-11 and 13 rejected under 35 U.S.C. 102(e) as being unpatentable by U.S. Patent Number 6,396,362 to Mourant, et al.

Mourant, et al, discloses a balun transformer/circuit, to be fabricated on an integrated circuit substrate. Even more particularly, Mourant, et al, discloses balun transformer structures, which are disposed in a plurality of layers so as to make the balun structures which are not only compact but which also reduce parasitic capacitance effects between primary and secondary transformer circuits. The structure comprises:

(1) A substrate for the structure to be mounted on, (Column 1, lines 5-15)

- (2) A primary circuit disposed in a layer above the substrate, comprising at least one winding. (Figures 6, 6A, 8, and 8A)
- (3) A secondary circuit disposed in a layer above the substrate, this layer comprising a primary and a secondary winding interleaved, (Figures 6 and 6A) (Column 5, lines 1-20)
- (4) An insulative layer disposed between the upper and lower planar structures. (Column 4, lines 46-49) (Figures 6, 6A, 8, and 8A)

Regarding claim 9, it is shown in figures 6 and 6A the layer comprising "at least one" winding is below the layer comprising the interleaved primary and secondary windings.

Regarding claim 10 and 13, it is shown in figures 8 and 8A, that both the upper and lower layers comprise a plurality of interleaved windings, which are insulated from one another.

Regarding claim 11, it is shown in figures 6, 6A, 8, and 8A that the windings are in a spiral configuration.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 12 and 14 rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 6,396,362 to Mourant, et al.

Mourant, et al, discloses the claimed invention except for a third conductive wherein the "at least one inductor" of the first conductive layer is partly in the third conductive layer. Mourant, et al, teaches that the parasitic capacitance introduced between the primary and secondary circuit is

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between layers is across the primary only and not between the primary and secondary. This is set forth in column 5, lines 10-15, and illustrated in figure 6. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate a third conductive layer insulated and located above the conductive layer comprising a plurality of interleaved windings, and connecting only the primary winding. This layer would be an addition to the structure illustrated in figure 6. By connecting only the primary winding throughout the structure and by adding another conductive layer the parasitic capacitance introduced between the primary and secondary circuit would be minimized further as a result of the multi-layer structure.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer A. Poker whose telephone number is 703-305-4037. The examiner can normally be reached on 6:00-3:30, Mon.-Fri. (alternating Fridays off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on 703-308-7619. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

jap

January 23, 2003

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TECHNICATION OF THE 2008